	Application No.		Applicant(s)		
Notice of Allowability	10/610 042		LENSING ET AL.		
	10/610,942 Examiner		Art Unit		
	Andre' C. Stever	ison	2812	<del></del>	
The MAILING DATE of this communication appears on the cover she t with the correspondence addressAll claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance and Issue Fee Due or other appropriate communication will be mailed in due cours.					
1. This communication is responsive to					
2.   The allowed claim(s) is/are 18-21 and 33-37.					
	The drawings filed on <u>July 1, 2003</u> are acceptable.				
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d). a) ☐ All b) ☐ Some* c) ☐ None of the CERTIFIED copies of the priority documents have been					
1. Treceived.					
2 received in Application No. (Series Code / Serial Number)					
3. Teceived in this national stage application from the International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
5. Acknowledgement is made of a claim for domestic priority under 35 U.S.C. & 119(e).					
A SHORTENED STATUTORY PERIOD FOR REPLY to comply with the requirements noted below is set to EXPIRE <b>THREE MONTHS</b> FROM THE "DATE MAILED" of this Office Action. Failure to timely comply will result in ABANDONMENT of this application. Extensions of time may be available under the provisions of 37 CFR 1.136(a).					
6. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.					
7. Applicant MUST submit NEW FORMAL DRAWINGS  (a) because the originally filed drawings were declared by applicant to be informal.					
<ul><li>(b) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review( PTO-948) attached</li><li>1) ☐ hereto or 2) ☐ to Paper No</li></ul>					
· · ·					
(c) including changes required by the proposed drawing correction filed, which has been approved by the examiner.					
(d) including changes required by the attached Examiner's Amendment / Comment.					
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the reverse side of the drawings. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.					
8. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
Any reply to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE / SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included.					
Attachment(s)					
<ul> <li>1⊠ Notice of References Cited (PTO-892)</li> <li>3□ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>5□ Information Disclosure Statements (PTO-1449), Paper No. 2</li> <li>7□ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	4⊑ . 6⊑ 8∑	] Interview Summa ] Examiner's Amer	I Patent Application ( ary (PTO-413), Paper adment/Comment ment of Reasons for	. No	

## **Detailed Action**

The following is an examiner's statement of reasons for allowance: While the prior art shows a controlling of the processing tools by taking a measurement of their accuracy and comparing it to a memory stored in a data base, if fails to show the specific nature of calculating at least one necking error or break error for a poly-silicon structure for use of a comparison.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Allowable Subject Matter

Claims #18 through 21 and 33 through 37 are allowed.

## **Reason for Allowance**

## Claim #18

A scatterometry data error analysis unit coupled to said metrology tool and said scatterometry reference library, said scatterometry data error analysis unit capable of comparing said metrology data from the metrology tool, to corresponding data in said scatterometry reference library, and calculating at least one of a necking error and a poly-silicon structure break error in response to said comparison.

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Claim #33

Perform a fault-detection analysis in response to said comparison of said

metrology data and said reference library data for improving processing of a

subsequent semiconductor wafer.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Andre C. Stevenson whose telephone number is (703)

308 6227. If contact needs to be made with the examiner after February 3, 2004 the

following number should be used; (571) 272 1683. The examiner can normally be

reached on Monday through Friday from 8:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, John Niebling, can be reached on (703) 308 3325. The fax phone number

for the organization where this application or proceeding is assigned is (703) 308 7724.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308

1782. Also, the proceeding number can be used to fax information;

• (703) 872-9306

Andre C. Stevenson

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01/29/04

John F. Niebling Supervisory Patent Examiner Technology Center 2800 Page 4